

AMENDMENTS TO THE CLAIMS

Please add new claims 25 through 32, as follows:

1 1. (Original) A method for informing a user of a private mobile communication service
2 possible area when a mobile communication terminal enters a private mobile communication
3 network being interoperable with a public mobile communication network, comprising the steps of:
4 upon receiving a system parameter message being broadcast by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message;
7 when the mobile communication terminal exists in the private mobile communication service
8 area, transmitting a location registration message including a predetermined registration type to the
9 private mobile communication system;
10 receiving a message indicating a private mobile communication service possible state from
11 the private mobile communication system according to registration result information of the private
12 mobile communication system; and
13 informing the user of the private mobile communication service possible state.

1 2. (Original) The method as set forth in claim 1, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message including a
3 predetermined field used for indicating the private mobile communication service possible state.

1 3. (Original) The method as set forth in claim 1, wherein the step of informing the user of the
2 private mobile communication service possible state is established by any one of an icon display, a
3 voice message, a character display, vibration and a ring tone.

1 4. (Original) A method for informing a user of a private mobile communication service
2 possible area when a mobile communication terminal enters a private mobile communication
3 network being interoperable with a public mobile communication network, comprising the steps of:
4 upon receiving a system parameter message being broadcast by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message;
7 when the mobile communication terminal exists in the private mobile communication service
8 area, transmitting a location registration message including a predetermined registration type to the
9 private mobile communication system;
10 receiving a message indicating a private mobile communication service possible state from
11 the private mobile communication system; and
12 informing the user of the private mobile communication service possible state.

1 5. (Original) The method as set forth in claim 4, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message having a
3 predetermined field used for indicating the private mobile communication service possible state.

1 6. (Original) The method as set forth in claim 5, wherein the predetermined field is a CHARi
2 field of an IS-95 Information Records Element.

1 7. (Original) The method as set forth in claim 4, wherein the step of indicating the private
2 mobile communication service possible state is established by at least one of an icon display, a voice
3 message, a character display, vibration and a ring tone.

1 8. (Original) A method for informing a mobile communication terminal of a private mobile
2 communication service possible area in a private mobile communication system being interoperable
3 with a public mobile communication network, comprising the steps of:

4 broadcasting a system parameter message with a predetermined bit indicating a private
5 mobile communication service area to at least one mobile communication terminal residing in the
6 private mobile communication service area;

7 receiving a registration message including a predetermined registration type requesting to
8 register in the private mobile communication system from the mobile communication terminal;

9 searching for a subscriber database of the private mobile communication system to determine
10 whether the mobile communication terminal is registered or not, and performing a location
11 registration of the mobile communication terminal according to registration result information of the
12 mobile communication terminal; and

13 transmitting a message indicating a private mobile communication service possible state to

14 the mobile communication terminal.

1 9. (Original) The method as set forth in claim 8, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message having a
3 predetermined field used for indicating the private mobile communication service possible state.

1 10. (Original) The method as set forth in claim 9, wherein the predetermined field is a
2 CHARi field of an IS-95 Information Records Element.

1 11. (Original) The method as set forth in claim 8, wherein the step of indicating the private
2 mobile communication service possible state is established by any one selected from a group
3 consisting of an icon display, a voice message, a character display, vibration and a ring tone.

1 12. (Original) A method for informing a mobile communication terminal of a private mobile
2 communication service possible area in a private mobile communication system being interoperable
3 with a public mobile communication network, comprising the steps of:

4 broadcasting a system parameter message with a predetermined bit indicating a private
5 mobile communication service area to at least one mobile communication terminal residing in the
6 private mobile communication service area;

7 receiving a registration message including a predetermined registration type requesting to
8 register in the private mobile communication system from the mobile communication terminal;

9 performing a location registration of the mobile communication terminal after receiving the
10 registration message; and

11 transmitting a message indicating a private mobile communication service possible state to
12 the mobile communication terminal.

1 13. (Original) The method as set forth in claim 12, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message having a
3 predetermined field used for indicating the private mobile communication service possible state.

1 14. (Original) The method as set forth in claim 13, wherein the predetermined field is a
2 CHARi field of an IS-95 Information Records Element.

1 15. (Original) The method as set forth in claim 12, wherein the step of indicating the private
2 mobile communication service possible state is established by any one of an icon display, a voice
3 message, a character display, vibration and a ring tone.

1 16. (Original) A method for informing at least one mobile communication terminal of a
2 specific area of a mobile communication network in a mobile communication system when the
3 mobile communication terminal enters the specific area of the mobile communication network,
4 comprising the steps of:

5 broadcasting a system parameter message with a predetermined bit indicating the specific

6 area to the mobile communication terminal residing in the mobile communication service area;
7 receiving a registration message including a predetermined registration type requesting to
8 register in the mobile communication system from the mobile communication terminal;
9 searching for a subscriber database of the mobile communication system to determine
10 whether the mobile communication terminal is registered or not, performing a location registration
11 of the mobile communication terminal according to registration result information of the mobile
12 communication terminal; and
13 transmitting a message indicating a specific area service possible state to the mobile
14 communication terminal.

1 17. (Original) The method as set forth in claim 16, wherein the message indicating the
2 specific area service possible state is a feature notification message having a predetermined field
3 used for indicating the specific area service possible state.

1 18. (Original) The method as set forth in claim 17, wherein the predetermined field is a
2 CHARi field of an IS-95 Information Records Element.

1 19. (Original) The method as set forth in claim 16, wherein the mobile communication
2 terminal indicates the specific area service possible state by any one of an icon display, a voice
3 message, a character display, vibration and a ring tone.

1 20. (Original) A method for informing a user of a specific area of a mobile communication
2 network when the mobile communication terminal enters the specific area of a mobile
3 communication system, comprising the steps of:

4 upon receiving a system parameter message being broadcast by the mobile communication
5 system, checking a predetermined bit for indicating the specific area in the system parameter
6 message;

7 when the mobile communication terminal exists in the service area of the specific area,
8 transmitting a registration message including a predetermined registration type to the mobile
9 communication system;

10 receiving a message indicating a specific area service possible state in the mobile
11 communication network from the mobile communication system; and

12 informing the user of the specific area service possible state.

1 21. (Original) The method as set forth in claim 20, wherein the step of indicating the specific
2 area service possible state is established by any one of an icon display, a voice message, a character
3 display, vibration and a ring tone.

1 22. (Original) A computer-readable medium having computer-executable instructions for
2 performing a method for informing a user of a private mobile communication service possible area
3 when a mobile communication terminal enters a private mobile communication network being
4 interoperable with a public mobile communication network, comprising:

5 upon receiving a system parameter message being broadcast by the private mobile
6 communication system, checking a predetermined bit for indicating the private mobile
7 communication service area contained in the system parameter message;

8 when the mobile communication terminal exists in the private mobile communication service
9 area, transmitting a location registration message including a predetermined registration type to the
10 private mobile communication system;

11 receiving a message indicating a private mobile communication service possible state from
12 the private mobile communication system according to registration result information of the private
13 mobile communication system; and

14 informing the user of the private mobile communication service possible state.

1 23. (Original) The computer-readable medium of claim 22, wherein the message indicating
2 the private mobile communication service possible state is a feature notification message including
3 a predetermined field used for indicating the private mobile communication service possible state.

1 24. (Original) The computer-readable medium of claim 23, wherein the step of informing the
2 user of the private mobile communication service possible state is established by selecting any one
3 of group consisting of an icon display, a voice message, a character display, vibration and a ring tone.

1 25. (New) A method for performing a manner mode conversion function of a mobile
2 communication terminal in a private mobile communication network being interoperable with a

3 public mobile communication network, comprising the steps of:

4 upon receiving a system parameter message being broadcast by the private mobile
5 communication system, checking a predetermined bit for indicating the private mobile
6 communication service area contained in the system parameter message;

7 when the mobile communication terminal exists in the private mobile communication service
8 area, transmitting a location registration message including a predetermined registration type to the
9 private mobile communication system; and

10 receiving a message indicating a private mobile communication service possible state from
11 the private mobile communication system, and performing the manner mode conversion function
12 when the received message has a bit indicating the manner mode conversion function.

1 26. (New) The method as set forth in claim 25, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message having a
3 predetermined field used for indicating the private mobile communication service possible state.

1 27. (New) A method for providing at least one mobile communication terminal with a
2 manner mode conversion function in a private mobile communication system being interoperable
3 with a public mobile communication network, comprising the steps of:

4 broadcasting a system parameter message with a predetermined bit indicating a private
5 mobile communication service area to the mobile communication terminal contained in a private
6 mobile communication service area;

7 receiving a location registration message including a predetermined registration type
8 requesting to register in the private mobile communication system from the mobile communication
9 terminal; and

10 performing a location registration of the mobile communication terminal after receiving the
11 location registration message, and transmitting a message which contains a bit indicating the manner
12 mode conversion function and indicates a private mobile communication service possible state to
13 the mobile communication terminal.

1 28. (New) The method as set forth in claim 27, wherein the message indicating the private
2 mobile communication service possible state is a feature notification message having a
3 predetermined field used for indicating the private mobile communication service possible state.

1 29. (New) A method for providing at least one mobile communication terminal with a
2 manner mode conversion function in a mobile communication system when the mobile
3 communication terminal enters the specific area of the mobile communication network, comprising
4 the steps of:

5 broadcasting a system parameter message with a predetermined bit indicating the specific
6 area to the mobile communication terminal contained in a private mobile communication service
7 area;

8 receiving a registration message having a predetermined registration type requesting to
9 register in the mobile communication system of the specific area from the mobile communication

terminal; and

searching for a subscriber database of the mobile communication system to determine whether the mobile communication terminal is registered or not, performing a location registration of the mobile communication terminal according to registration result information of the mobile communication terminal, and transmitting a message which contains a bit indicating the manner mode conversion function and indicates a specific area service possible state to the mobile communication terminal.

30. (New) The method as set forth in claim 29, wherein the message indicating the specific area service possible state is a feature notification message having a predetermined field used for indicating the specific area service possible state.

31. (New) A method for performing a manner mode conversion function of a mobile communication terminal when the mobile communication terminal enters a specific area of a mobile communication system, comprising the steps of:

upon receiving a system parameter message being broadcast by the mobile communication system, checking a predetermined bit for indicating a service area of the specific area in the system parameter message, and determining whether the mobile communication terminal exists in the specific area service area;

when the mobile communication terminal exists in the specific area service area, transmitting a registration message including a predetermined registration type to the mobile communication

10 system of the specific area; and

11 receiving a message indicating a specific area service possible state in a mobile
12 communication network from the private mobile communication system, and performing the manner
13 mode conversion function when the received message has a bit indicating the manner mode
14 conversion function.

1 32. (New) The method as set forth in claim 31, wherein the message indicating the specific
2 area service possible state is a feature notification message having a predetermined field used for
3 indicating the specific area service possible state.